

STADIA SURVEY NOTES

start of Volum No 2

AREA ZONE A NPR-4 STATE or PROVINCE Alaska PAGE No. 106

LINE No.(s) 27 PARTY No. 184 DATE 9 Day 4 Mo. 74 Yr. BOOK No. 1

SURVEYOR A. Jensen RODMAN 1. Byrd WEATHER: Clear-Cold-Windy-Hazy ~~PTS~~ No. 2

Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1														
2														
3														
4														
5														
6	E													
7														
8														
9														
10	S	1320		9016	58									
11														
12	N	1320		9037	11									
13														
14	N	2640		9018	46									
15														
16	S	2640		90.0655										
17		1320		9003-21										
18		0												
19	N	1320		9075-52										
20	N	2640		90-08-23										

TI-588B 3960 use as ck. only

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**STADIA SURVEY NOTES**

AREA Zone A NPR-4 STATE or PROVINCE Alaska PAGE No. 107  
 LINE No.(s) 27 PARTY No. 184 DATE 9 Day 4 Mo.      Yr. BOOK No. 1  
 SURVEYOR A. Jensen RODMAN John Byrd WEATHER: Cold-Windy-Ground Blizzards No. 2  
Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1			<u>B/S south to SP 17</u>													
2	<u>S</u>	<u>1320</u>		<u>90 04 18</u>					<u>+4.0</u>	<u>+5.7</u>	<u>10.9</u>	<u>5.2</u>	<u>0</u>	<u>SP</u>	<u>17</u>	
3		<u>0</u>		<u>-</u>					<u>-5.2</u>	<u>-5.2</u>		<u>5.7</u>	<u>0</u>	<u>SP</u>	<u>16</u>	
4	<u>N</u>	<u>1320</u>		<u>90 10 45</u>					<u>+4.0</u>	<u>+8.1</u>		<u>2.8</u>	<u>0</u>	<u>SP</u>	<u>15</u>	
5	<u>S</u>	<u>1320</u>		<u>90 05 10</u>					<u>+4.0</u>	<u>+6.0</u>	<u>8.8</u>		<u>0</u>			
6		<u>0</u>		<u>-</u>					<u>+5.4</u>	<u>-5.4</u>		<u>3.4</u>	<u>0</u>	<u>SP</u>	<u>14</u>	
7	<u>N</u>	<u>1320</u>		<u>90 04 11</u>					<u>+4.0</u>	<u>-5.6</u>		<u>3.2</u>	<u>0</u>	<u>SP</u>	<u>13</u>	
8	<u>XS</u>	<u>1320</u>		<u>90 04 04</u>					<u>+4.0</u>	<u>+5.6</u>	<u>8.8</u>		<u>0</u>			
9		<u>0</u>		<u>-</u>					<u>+5.2</u>	<u>-5.2</u>		<u>3.6</u>	<u>0</u>	<u>SP</u>	<u>12</u>	
10	<u>N</u>	<u>1320</u>		<u>90 06 38</u>					<u>+4.0</u>	<u>-6.5</u>		<u>2.3</u>	<u>0</u>	<u>SP</u>	<u>11</u>	
11	<u>S</u>	<u>1320</u>		<u>90 07 29</u>					<u>+4.0</u>	<u>-6.9</u>	<u>9.2</u>		<u>0</u>			
12		<u>0</u>		<u>-</u>					<u>-5.2</u>	<u>-5.2</u>		<u>4.0</u>	<u>0</u>	<u>SP</u>	<u>10</u>	
13	<u>N</u>	<u>956</u>		<u>89 59 59</u>					<u>-4.2</u>	<u>-4.2</u>		<u>5.0</u>	<u>0</u>	<u>N2-96</u>		
14																
15																
16	<u>N</u>	<u>1320</u>		<u>90 05 05</u>					<u>-4.0</u>	<u>-6.0</u>		<u>3.2</u>	<u>0</u>	<u>SP</u>	<u>9</u>	
17	<u>N</u>	<u>2640</u>		<u>90 02 03</u>					<u>-4.0</u>	<u>-5.6</u>		<u>3.6</u>	<u>0</u>	<u>SP</u>	<u>8</u>	
18	<u>S</u>	<u>2640</u>		<u>90 03 58</u>					<u>+4.0</u>	<u>+7.0</u>	<u>10.6</u>		<u>0</u>			
19	<u>S</u>	<u>1320</u>		<u>90 06 24</u>					<u>-4.0</u>	<u>-6.5</u>		<u>4.1</u>	<u>0</u>	<u>SP</u>	<u>7</u>	
20		<u>0</u>		<u>-</u>					<u>-5.0</u>	<u>-5.0</u>		<u>5.6</u>	<u>0</u>	<u>SP</u>	<u>6</u>	

STADIA SURVEY NOTES

AREA Zona A NPR-4 STATE or PROVINCE Alaska PAGE No. 108  
 LINE No.(s) 27 PARTY No. 184 DATE 29 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR A. Jensen RODMAN J. Byrd WEATHER: Cold - windy - Gy. Blizzard ~~PTS~~ No. 2  
Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF.S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												10.6				
2	N	1320		90 04 57					-4.0	-5.9		4.7		SP 5		12" spike
3	N	2240		90 04 22					-4.0	-7.4		3.2	0	SP 4		
4	S	2440		90 01 04					+4.0	+4.8	8.0		Δ			
5	S	1320		90 03 00					-4.6	-5.2		2.8		SP 3	(N2-97)	
6		0		-					-4.9	-4.9		3.1		SP 2	Top of spike	
7		0		-					-5.7	-5.7		2.3		SP 2	Ice Level	
8															on Harrison	
9															BAY	
10	N	1320		90 07 01					-4.0	-6.7		1.3		SP 1	on ice	
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 109

LINE No.(s) 57 PARTY No. 184 DATE 10 Day 4 Mo. 74 Yr. BOOK No. 1

SURVEYOR LEIBENGOOD RODMAN ALBLASE WEATHER: CLEAR & COLD P.T.S. No. 2

Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2		1320												90	
3	N			89°55'44"								19.1	21.5	○	N2-92 <u>1st PICE</u>
4	N			27°05'57"										△	
5														ck	
6		-0-													
7															
8	S	295		82°25'54"											
9	S	295		27°35'34"											
10															
11	N	1025		30°05'24"											
12	N	1025		269°55'55"											
13															
14		-0-													
15															
16	S	1320		90°39'09"											
17	S	1320		219°22'12"											
18															
19															
20															

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### STADIA SURVEY NOTES

 AREA Zone A NPE-4

 STATE or PROVINCE ALASKA

 PAGE No. 110

 LINE No.(s) 27

 PARTY No. 184

 DATE 10

 Day 4

 Mo. 74

 Yr. BOOK No. 1

 SURVEYOR LEIBENGOOD

 RODMAN AL BLASE

 WEATHER: CLEAR & COOL
~~PTS.~~ No. 2

Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													12.2			
2														0		SP 25
3	N	1320		90°06'17"					+4.0		+6.2	18.4		Δ		
4	N	1320		269°54'49"					+4.0					CK		
5																
6		-0-							-5.1		-5.1		13.3		-	SP 26
7																
8	S	1320		84°54'02"					-4.0		-3.4		15.0		0	SP 27
9	S	1320		270°01'59"					-4.0						CK	
10																
11	N	1320		89°53'11"					+4.0		+1.1	16.1			Δ	
12	N	1320		270°08'02"					+4.0						CK	
13																
14		-0-							-5.1		-5.1		11.0		-	SP 28
15																
16	S	1320		90°08'14"					-4.0		-6.9		9.2		0	SP 29
17	S	1320		269°53'10"					-4.0						CK	
18																
19	N	1320		90°08'25"					+4.0			16.1			Δ	
20	N	1320		269°53'19"					+4.0		+6.9				CK	

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2nd \_\_\_\_\_

### STADIA SURVEY NOTES

AREA ZONE A NPR-4 STATE or PROVINCE ALASKA PAGE No. 111  
 LINE No.(s) 27 PARTY No. 189 DATE 10 Day 4 Mo. 24 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN ALBANESE WEATHER: CLEAR & COLD ~~PTS~~ No. 2

VOLUME

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												16.1				
2																
3		- 0 -											11.0	-	SP 30	
4	S	1320		89° 54' 53"							-4.0	-4.0	12.1	-	SP 31	
5																
6	S	1815		89° 45' 57"							-4.8	+3.1	19.2	⊙	NZ-99	
7	S	1815		270° 15' 41"							-4.8			ck		
8																
9	N	2145		89° 47' 36"							+4.8	-3.4	15.8	Δ		
10	N	2145		270° 13' 46"							+4.8			ck		
11																
12	N	1320		89° 53' 45"							-4.0	-3.5	12.3	-	SP 32	
13																
14		- 0 -											10.7	-	SP 33	
15																
16	S	1320		90° 06' 09"							-4.0	-6.4	9.4	-	SP 34	
17	S	2640		89° 59' 41"							-4.0	-3.8	12.0	-	SP 35	
18																
19	S	2805		89° 50' 54"							-4.1	+4.3	20.1	⊙	NZ100	
20	S	2805		278° 01' 26"							-4.1			ck		

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**STADIA SURVEY NOTES**

AREA ZONE A NPR-4 STATE or PROVINCE ALASKA PAGE No. 112  
 LINE No.(s) 27 PARTY No. 184 DATE 10 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN ALBLASE WEATHER: COLD & CLEAR P.T.S. No. 2

*Volume*

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2																
3	N	2475		89°53'17"				+4.1		-1.3	18.8	20.1	0	NZ-100		
4	N	2475		270°00'11"				+4.1					ck			
5													ck			
6	N	1320		95°09'37"				-4.0		-7.8		11.0	-	SP34		
7																
8		-0-						-5.4				13.4	-	SP37		
9	S	1682		394'31"				-4.1		+2.8		21.6	0	NZ-101		
10	S	1682		270°14'44"				-4.1					ck			
11																
12		-0-						+5.1				26.7				
13																
14	N	362		95°02'09"				-4.0		-4.2		22.5	-	SP38		
15																
16	S	958		90°34'13"				-4.0		-13.5		13.2	-	SP39		
17																
18	S	3268		98°09'12"				-2.7		11.2		15.5	0	NZ-102	WATER	
19	S			269°51'14"				-2.7					ck			
20																

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NZ-102 WATER  
 LINE  
 2.7 TOP PIPE  
 5.8 TO GROUND  
 3.1

### STADIA SURVEY NOTES

AREA Zona A NPR-4 STATE or PROVINCE ALASKA PAGE No. 113  
 LINE No.(s) 27 PARTY No. 184 DATE 10 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEWIS GOOD RODMAN AL BLASO WEATHER: CLEAR & COLD ~~PTS~~ No. 2

VOLUME

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												21.6	0		N2-101	
2																
3	N	3268		89°52'29"					+4.1	-3.7	17.9			Δ		
4	N	3268		270°08'49"					+4.1					CK		
5																
6	N	990		89°57'28"					-4.0	-3.8		14.1	-		SP40	
7																
8		<del>70</del>														+3.1 1/2 top of pipe
9		-0-							-4.9			13.0	-		N2-101	TO GRID - INTER WITH LINE 22
10	S								-4.0	-5.1		12.8	-		SP41	{ +0.4 tie
11	S	330		90°1'06"					-4.0	-3.9		14.0	-		SP82	LINE 22 { -13.6
12	W E	1320		89°54'48"					-4.0	-5.4		12.5	-		SP80	LINE 22 { -13.8
13	E W	1320		90°03'41"					-4.0							{ -1.3 tie
14																
15	S	1650		90°03'00"					-4.0	-5.2		12.7		○	SP42	
16	S	1650		264°58'00"					-4.0					CK		
17	N	2640		27°14'58"					+4.0	+2.1	19.8			Δ		
18	N	2640		279°24'07"					+4.0					CK		
19	N	1320		90°09'51"					-4.0	-7.8		12.0	-		SP43	
20		-0-							-4.8			15.0	-		SP44	

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### STADIA SURVEY NOTES

AREA Zone A NPE-4 STATE or PROVINCE ALASKA PAGE No. 114  
 LINE No.(s) 27 PARTY No. 184 DATE 10 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN AL BLASE WEATHER: COLD & CLOUDY ~~PTS~~ No. 2  
VOLUME

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												19.8				
2																
3	S	1320		89°58'27"					-4.0		-3.4		16.4	-	SP45	
4																
5	S	2640		89°53'13"					-4.0		+1.7		21.5	⊙	SP46	
6		2640		220°07'59"					-4.0					⊙	CK	
7																
8	N	1320		90°24'35"					+4.0		+13.1		34.6	Δ		
9	N	1320		269°36'59"					+4.0					⊙	CK	
10																
11		-0-							-5.6				29.0	-	SP47	
12																
13	S	<del>1320</del> 2640		90°01'17"					-4.0		-4.5		30.1	-	SP48	
14	S	2640		89°39'46"					-4.1		-3.3		31.3	⊙	SP49	N2-703
15	S	2640		270°01'46"					-4.1					⊙	CK	
16																
17	N	2640		90°07'31"					+4.1		+9.2		40.5	Δ		
18	N	2640		269°33'54"					+4.1					⊙	CK	
19																
20	N	1320		90°11'58"					-4.0		-8.6		31.9	-	SP50	

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### STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 115  
 LINE No.(s) 27 PARTY No. 184 DATE 10 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN AL BLASE WEATHER: CLEAR & COLD ~~PTS.~~ No. 2  
VOLUME

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												40.5				
2																
3		-0-														
4																
5	S	1320		89°59'50"												
6		1320		27°01'37"												
7																
8	N	1320		89°58'52"												
9	N	1320		27°02'26"												
10																
11		-0-														
12																
13	S	1320		89°58'52"												
14	S	1320		27°02'33"												
15																
16																
17																
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA Zone A NPE-4 STATE or PROVINCE ALASKA PAGE No. 116  
 LINE No.(s) 27 PARTY No. 184 DATE 11 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN AL BLASE WEATHER: CLEAR & COOL ~~PTS~~ No. 2

VOLUME 5

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1															
2											36.8	0	SP54		
3	N	1320		90°06'25"				+4.0	} +6.2	43.0		}	A CK		
4	N	1320		269°56'53"			+4.0								
5															
6		-0-						-5.5			37.5	-	SP55		
7															
8	S	1320		90°06'19"				-4.0		-6.4	36.6	-	SP56		
9															
10	S	2640		89°40'26"				-4.1	} +71.4		59.4	}	0 CK	SP57	NZ-104
11	S	2640		270°20'53"			-4.1								
12															
13	N	2640		90°03'16"				+4.1	} +9.0	63.4		}	A CK		
14	N	2640		269°58'26"			+4.1								
15															
16	N	1320		90°13'34"				-4.0		-9.2	53.2	-	SP58		
17															
18		-0-						-5.2		-5.2	58.2	-	SP59		
19	S	1320		90°10'00"				-4.2	} -7.8		53.6	}	0 CK	SP60	NZ-105
20	S	1320		269°57'25"			-4.2								

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### STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 117  
 LINE No.(s) 27 PARTY No. 184 DATE 11 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN BLASE WEATHER: CLEAR & COOL ~~PTS.~~ No. 2

VOLUME

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2												55.6	0	SP60	N2-105
3	N	2640		90°10'22"				+4.2		} +11.6	67.2		}	Δ	CK
4	N	2640		269°55'02"			+4.2								
5															
6	N	1320		90°11'47"				-4.0		-8.5		58.7	-	SP61	
7															
8		0-0		89°51'01"				-5.3		-5.3		61.9	-	SP62	
9															
10	S	1320		89°51'01"				-4.0		-7.5		59.7	-	SP63	
11															
12	S	2640		89°51'33"				-4.0		} +2.9		70.1	}	0	CK
13	S	2640		270°04'52"			-4.0								
14															
15	N	1320		90°17'08"				+4.0		} +10.3	80.4		}	Δ	CK
16	N	2640		269°44'06"			+4.0								
17															
18		0-0						-5.2		-5.2		75.2	-	SP65	
19															
20	S	165		90°15'02"				-3.9		-4.6		75.8	-	N2-106	SP65+165

TI-558B

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**STADIA SURVEY NOTES**

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 118  
 LINE No.(s) 27 PARTY No. 184 DATE 11 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN BLASF WEATHER: CLEAR & COOL ~~STS~~ No. 2

VOLUME 5

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												80.4				
2																
3	S	1320		90°09'06"							-4.0	-7.5	72.9	→	SP66	
4																
5	S	2640		90°07'46"							-4.0	} -9.5	70.9	} ⊙	SP67	
6	S	2640		269°53'21"							-4.0					} ⊙
7																
8	N	1320		90°16'20"							+4.0	} +9.9	80.8	} ⊙	SA	
9		1320		269°45'24"							+4.0					} ⊙
10																
11	N	318		90°16'00"							-0.6	-2.1	78.7	-	N2-107	INTR w line 24
12																
13		-0-										-5.2	-5.2	75.6	-	SP68
14																
15	S	1320		90°22'12"							-9.0	-12.5	68.3	-	SP69	
16																
17	S	2640		90°11'14"							-4.0	} -11.9	68.9	} ⊙	SP70	
18		2640		269°50'35"							-4.0					} ⊙
19																
20																

TI-588B

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### STADIA SURVEY NOTES

AREA ZONE A NPR-4 STATE or PROVINCE ALASKA PAGE No. 119  
 LINE No.(s) 27 PARTY No. 184 DATE 11 Day 4 Mo. 24 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN BLASE WEATHER: CLEAR & COOL P.P.S. No. 2

Valuemo

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1																
2													68.9	0	SP70	
3	N	2640		90°07'24"					+4.0	} +9.0	77.9					
4	N	2640		29°54'21"				+4.0								
5																
6	N	1320		90°13'52"					-4.0		-9.3		68.6	-	SP71	
7																
8		-0-							-5.3		-5.3		72.6	-	SP72	
9																
10	S	1320		89°52'11"					-4.0		3.3		74.6	-	SP73	
11																
12	S	2640		89°54'08"					-4.8	} +0.5			78.4	0	SP74	NR-108
13	S	2640		210°07'55"				-4.8								
14																
15																
16																
17																
18																
19																
20																

TI-598B

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### STADIA SURVEY NOTES

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 120  
 LINE No.(s) 27 PARTY No. 184 DATE 12 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEWIS & GORD RODMAN BLASIE WEATHER: BLOWING SNOW & COLD P.T.S. No. 2  
Valomir

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.		
1											78.4	⊙	SP 74	
2														
3	N	1320		89°55'03"					+1.7	80.1		Δ		
4		1320		270°01'00"					-4.0			CK		
5														
6		-0-							-5.3		74.8	-	SP 75	
7	S	1320		89°53'29"					-1.5		78.6	-	SP 76	
8	S	2640		89°52'10"					+2.8		82.9	⊙	SP 77	
9	S	2640		270°09'22"					-4.0				CK	
10														
11	N	1320		89°06'40"					-1.6	81.3		Δ		
12	N	1320		270°15'53"									CK	
13	N	1485		89°46'37"					+1.8		83.1	-	N2-104 <sup>9</sup>	= SP 76 + 1155
14		-0-							-5.1		76.2	-	SP 78	
15	S	1320		98°17'05"					-10.6		70.7	-	SP 79	
16	S	2640		90°07'43"					-9.6		71.7	⊙	SP 80	
17	S	2640		269°53'13"					-4.0				CK	
18														
19														
20														

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**STADIA SURVEY NOTES**

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AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 121

LINE No.(s) 27 PARTY No. 124 DATE 12 Day 4 Mo. 79 Yr. BOOK No. 1

SURVEYOR LEIBENGOOD RODMAN BLASE WEATHER: BLOWING SNOW & COLD ~~ITS~~ No. 2

VOLUME

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle of Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												71.7	0	SP80		
2																
3	N	1320		89°50'42"				+4.0		+0.1	71.8			Δ		
4	N	1320		270°10'46"				+4.0						CK		
5		-0-						-5.0				65.8	-	SP81		
6	S	1320		90°55'59"				-4.0		-25.5		46.3	-	SP82		
7	S	2145		89°00'27"				-4.1		+2.2		74.0	0	N2-H6	282 + 825'	
8	S	2145		270°10'31"				-4.1						CK	110	
9																
10	N	1815		89°56'09"				+4.1		+1.8	75.8			Δ		
11	N	1815		270°04'52"				+4.1						CK		
12	N	1320		90°01'02"				-4.0		-4.4		71.4	-	SP83		
13		-0-						-4.9				70.9	-	SP84		
14	S	1320		90°03'20"				-4.0		-5.0		70.8	0	SP85		
15	S	1320		269°58'11"				-4.0						CK		
16																
17	N	1320						+4.0						Δ		
18	N	1320						+4.0						CK		
19		-0-						+5.6			76.4			Δ		
20	S	1320		90°25'46"				-4.0		-13.9		62.5	-	SP86		

TI-588B

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**STADIA SURVEY NOTES**

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 122

LINE No.(s) 27 PARTY No. 184 DATE 12 Day 4 Mo. 74 Yr. BOOK No. 1

SURVEYOR LEIBENGOOD RODMAN BLASE WEATHER: BLOWING SNOW & COLD P.T.S. No. 2

Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1											76.4				
2		2640													
3	S	2640		90° 07' 25"					-9.2		67.2		SP87		
4	S	2640		249° 53' 49"									ck		
5															
6	N	1320		90° 14' 48"					+9.3		76.5		ck		
7	N	1320		219° 41' 58"											
8															
9		-0-													
10											71.0		SP88		
11	S	1320		89° 55' 12"					-2.2		74.3		SP89		
12	S	2640		89° 50' 18"					+3.7		80.2		SP 90		
13	S	2640		270° 10' 54"									ck		
14															
15	N	1320		90° 16' 51"					+9.6		89.8		ck		
16	N	1320		219° 41' 46"											
17		-0-													
18	S	1320		90° 12' 30"					-8.8		84.2		SP91		
19	S	2640		90° 16' 18"					-1.2		81.0		SP92		
20	S	2640		249° 55' 18"					-8.2		81.7		SP93		

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**STADIA SURVEY NOTES**

AREA ZONE A NPR-4 STATE or PROVINCE ALASKA PAGE No. 123

LINE No.(s) 27 PARTY No. 184 DATE 12 Day 4 Mo. 70 Yr. BOOK No. 1

SURVEYOR LEIBENGOOD RODMAN BLASO WEATHER: BLOWING SNOW & COLD P.P.S. No. 2

VOLUME 2

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													81.7	0	SP93	
2																
3	N	2640		90°33' "							+4.0	+6.2	87.9		Δ	
4	N	2640		90°55' "							+4.0				CK	
5	N	1320		90°55' "							-4.0	-6.3	81.6	-	SP94	
6		-0-									-5.2	-5.2	82.7	-	SP95	
7	S	1320		90°03' 21"							-4.0	-5.3	82.6	-	SP96	
8	S	1963		89°53' 41"							-4.4	-0.5	87.4	0	N2-H3	SP96 + 643.0
9	S	1943		270°72' "							-4.4			CK		
10																
11	N	1997		89°49' 16"							+4.4	-2.2	85.2		Δ	
12	N	1997		270°72' 00"							+4.4				CK	
13	N	1320		90°05' 40"							-4.0	-6.2	79.0	-	SP97	
14		-0-									-5.9	-5.9	79.3	-	SP98	
15	S	1320		90°04' 55"							-4.0	-5.9	79.3	-	SP99	
16	S	2640		89°59' 28"							-4.0	-3.1	82.1	0	N2-H4	SP 100
17	S	2640		270°01' 30"							-4.0			CK		
18																
19																
20																

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**STADIA SURVEY NOTES**

AREA Zone A NPR-4 STATE or PROVINCE ALASKA PAGE No. 124  
 LINE No.(s) 27 PARTY No. 184 DATE 12 Day 4 Mo. 74 Yr. BOOK No. 1  
 SURVEYOR LEIBENGOOD RODMAN BLASO WEATHER: BLOWING SNOW & COLD ~~PTS.~~ No. 2  
Beamer

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		AB.S. OF S. -S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1													82.1	⊙	N2-N4	= SP100
2										+8.5						
3	N	2640		98°01'16"				+4.0		7.4.7	90.6			⊙		
4	N	2640		270°00'40"				+4.0						⊙		
5	N	1320		90°05'15"				-4.0		-6.0		82.6	-		SP101	
6		-0-						-5.5		-5.5		85.1	-		SP102	
7	S	1320		90°02'32"				-4.0		-5.0		85.6	-		SP103	
8	S	2640		89°57'11"				-2.9		-1.3		89.3	⊙		SP104	= N2-N5
9	S	2640		270°04'17"				-3.9						⊙		
10																
11	N	2640		89°54'37"				+3.9		-0.8	88.5			⊙		
12	N	2640		278°04'48"				+3.9						⊙		
13	N	1320		89°55'10"				-4.0		-2.1		86.4	-		SP105	
14		-0-						-5.5		-5.5		89.0	-		SP106	
15	S	1320		89°55'11"				-4.0		-6.5		82.0	-		SP107	
16				90°06'38"												
17	S	2640		89°55'41"				-4.0		-0.3		88.2	⊙		SP108	
18	S	2640		270°08'31"				-4.0						⊙		
19																
20																

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### STADIA SURVEY NOTES

AREA N.P.R. - No. 4 STATE or PROVINCE Alaska PAGE No. 12A-A  
 LINE No.(s) 27 PARTY No. 184 DATE 15 Day April Mo. 1974 Yr. BOOK No. 1  
 SURVEYOR Leibengood RODMAN McDougal WEATHER: ±0° Drifting snow P.T.S. No. 2  
Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1												80.2	○	SP. 90	
2	N	1320		90° 15' 03"					+4.0	+9.4	89.6		△		
3				289° 46' 44"					+4.0					Chk.	
4	S	2640		90° 05' 51"					-4.0	-7.9	81.7		○	SP. 93	
5				269° 55' 43"					-4.0						
6															
7															
8													○	SP. 100	
9	N	2640		90° 01' 09"					+4.0	Backside			△		
10				270° 00' 19"					+4.0						
11	S	2640		89° 57' 27"					-4.0				○	SP. 104	
12				270° 03' 50"					-4.0					Chk.	
13															
14													○	SP. 100	
15	N	2640		90° 06' 35"					+4.0	+8.5			△		
16				289° 59' 55"					+4.0					Chk.	
17	S	2640		89° 57' 42"					-4.0	-1.6			○	SP. 104	
18				270° 03' 59"					-4.0					Chk.	
19															
20															

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### STADIA SURVEY NOTES

AREA N.P.R. No. 4 STATE or PROVINCE Alaska PAGE No. 125  
 LINE No.(s) 27 PARTY No. 184 DATE 15 Day 4 Mo. 1914 Yr. BOOK No. 1  
 SURVEYOR Leibengood RODMAN M. Dougall WEATHER: \_\_\_\_\_ P.T.S. No. 2  
Volume

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD		
1															
2	N	2640		89° 59' 50"	+				+4.0	-0.7	87.5	88.2	0	SP. 108	
3				270° 07' 06"					+4.0				Δ		
4		1320		90° 01' 47"					-4.0	-4.7		82.8		SP. 109	
5		0							-5.4	-5.4		82.1		SP. 110	
6	S	1320		89° 59' 18"					-4.0	-3.7		83.8		SP. 111	
7	S	<del>2475</del>		89° 43' 30"	+				4.3	+4.6		92.1	0	T.P. N2 - 76	
8		1760		270° 18' 18"									ck.		
9	N	2200		90° 05' 23"	-				+4.3	+7.2	99.3		Δ		
10				269° 54' 12"									ck		
11	N	1320		90° 22' 33"					4.0	-12.7		86.6		SP. 112	
12		0							5.5	-5.5		93.8		SP. 113	
13	S	1320		90° 14' 28"	-				-4.0	-9.6		89.7		SP. 114	
14	(2145)	<del>2895</del>		89° 58' 26"					<del>4.0</del> 4.4	-3.4		95.9		T.P. N2 - 118	
15	S	2640		90° 02' 47"	-				-4.0	-5.7		93.6	0	SP. 115	
16				269° 58' 29"									ck		
17	N	2640		89° 59' 41"	+				+4.0	+3.2	96.8		Δ		
18				270° 01' 44"					+4.0				ck		
19		1320		90° 05' 56"					-4.0	-6.3		90.5		SP. 116	
20		0							-5.6	-5.6		91.2		SP. 117	

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### STADIA SURVEY NOTES

AREA N.P.R. 4 STATE or PROVINCE Alaska PAGE No. 126  
 LINE No.(s) 27 PARTY No. 184 DATE 15 Day 9 Mo. 1994 Yr. BOOK No. 1  
 SURVEYOR Leibengood RODMAN McDougal WEATHER: \_\_\_\_\_ P.T.S. No. 2  
Volume \_\_\_\_\_

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING			Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion			Center Hair	INST.			
1										96.8					
2	S	1320		90° 02' 40"				-4.0	-5.0		91.8		SP. 118		
3	S	2640		89° 53' 52"		+		-4.0	+1.3		98.1	⊙	SP. 119		
4				270° 07' 36"				-4.0				} CK			
5	N	2640		90° 04' 14"		-		+4.0	+6.6	104.7		⊙			
6				269° 57' 35"				+4.0				} CK			
7		1320		90° 07' 38"				-4.0	-6.9		97.8		SP. 120		
8		0						-5.6	-5.6		99.1		SP. 121		
9	S	1320		89° 56' 56"				-4.0	-2.8		103.9		SP. 122		
10	S	1946		89° 46' 34"		+		-4.1	+3.9		108.6	⊙	<del>SP. 123</del> T.P. N2-119		
11				270° 14' 54"				-4.1				} CK			
12	N	1849		90° 02' 47"		-		+4.1	+5.2	113.8		⊙			
13				269° 58' 50"				+4.1				} CK			
14	N	1155		90° 07' 54"				-4.0	-6.7		107.1		SP. 123		
15	S	165		91° 34' 14"				-4.0	-8.5		105.3		SP. 124		
16	S	1485		90° 10' 39"				-4.0	-8.6		105.2		SP. 125		
17		0						-5.6	-5.6		108.2		T.P. N2-120		
18	S	2805		90° 02' 36"		-		-4.0	-5.7		108.1	⊙	(T.P. N2-749 121)		
19				269° 58' 20"								} CK	SP. 126		
20															

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### STADIA SURVEY NOTES

AREA N.P.R. No. 4 STATE or PROVINCE Alaska PAGE No. 127  
 LINE No.(s) 27 PARTY No. 182 DATE 15 Day April Mo. 1974 Yr. BOOK No. 1  
 SURVEYOR Leibengood RODMAN A. McDougall WEATHER: Clearing - light blowing snow P.T.S. No. 2  
Volume.

LINE	Bearing of Sight	Stadia Distance	BEAMAN OR VERNIER			ROD READING				Angular Elev. Diff.	Final Elev. Diff.	ELEVATIONS		A.B.S. OF S. - S.S.	Station	REMARKS
			Level	Inclined	Angle or Factor	Hair Read	Reading	Correc-tion	Center Hair			INST.	ROD			
1												108.1				
2	N	2640		90° 01' 13"		-			+4.0		+4.3	112.4				
3				270° 00' 29"					+4.0					Δ		
4	N	1320		90° 08' 24"					-4.0		-7.2	105.2			SP. 127	
5		0							-5.6		-5.6	107.8			SP. 128	
6	S	1189		90° 02' 48"		-			-2.4		-0.7	111.7		⊙		Top of pipe
7				269° 58' 30"										⊙		int. lines 27 + 30.
8												1129				
9												-1.2				
10																
11																
12																
13	N	1451		90° 06' 45"		-			+2.4		+2.7	114.4				
14				269° 54' 37"					+2.4					Δ		
15	N	1320		90° 03' 01"					-4.0		-5.2	109.2			SP. 129	
16		0							5.6		-5.6	108.8			SP. 130	
17	S	1320		90° 05' 24"		-			-4.0		-5.8	108.6		⊙		SP. 131
18				269° 58' 48"					-4.0					⊙		
19																
20																

TI-588B

WORKED BY \_\_\_\_\_ CHECKED BY 1st \_\_\_\_\_ 2nd \_\_\_\_\_